

A CHECK-LIST OF THE PTERIDOPHYTES OF ZIMBABWE

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ABSTRACT

The two hundred and thirty-four species of ferns and fern allies indigenous or naturalised in Zimbabwe are listed, thereby up-dating E. A. Schelpe's (1970) treatment by including new records and name changes effected since his publication.

UITTREKSEL

'N KONTROLELYS VAN DIE PTERIDOFIETE VAN ZIMBABWE

Die tweehonderd vier-en-dertig varingsoorte en varingagtiges, inheems of genaturaliseerd in Zimbabwe word aangegee en so word E. A. Schelpe se (1970) verhandeling op datum gebring deur die insluiting van nuwe varingsoorte en naamveranderings sedert sy publikasie.

Key words: Pteridophytes, Zimbabwe, ferns.

INTRODUCTION

The following is a check-list of the ferns and fern allies occurring in Zimbabwe. Since the publication of Schelpe's *Pteridophyta* for the *Flora Zambesiaca* (1970), there have been several new records, new taxa described and several name changes making an up-dated check-list desirable.

The arrangement and numbering of families and genera follows Crabbe, Jermy and Mickel's numerical sequence (1975). Although differing radically from Schelpe's treatment, this is now a more widely accepted arrangement. Schelpe's basic generic concept has nevertheless been followed, with a few exceptions.

Synonyms have been printed in italics, and since much of the origin of Zimbabwean synonymy dates from T. R. Sim's *Ferns of South Africa* (1915), synonyms and misapplied names from this source are also provided in the list.

References to recent generic or family revisions since the *Flora Zambesiaca* volume on *Pteridophyta* was published are given under the relevant taxa.

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Distribution of species in surrounding territories is indicated in the list by numerals, as follows:

- 0 Endemic to Zimbabwe or so far only recorded from Zimbabwe
- 1 Botswana
- 2 Zambia
- 3 Malawi
- 4 Mozambique
- 5 Area covered by the flora of southern Africa, but excluding Botswana (i.e. Republic of South Africa, Transkei, Lesotho, Swaziland, Bophuthatswana, Namibia and the Caprivi Strip).

Where species do not occur in any of the countries adjacent to Zimbabwe, but are found elsewhere in Africa or the Indian Ocean islands, the nearest locality to Zimbabwe is listed.

A specimen is cited for each taxon. Where possible specimens have been cited which are housed in the National Herbarium of Zimbabwe (SRGH), with duplicates in two or more of the following herbaria: K, BOL, BM, PRE, LISC. Where a species is described from Zimbabwe the specimen quoted is the type and the collector's name italicised.

Introduced species which have now become naturalised in parts of the country are indicated by an asterisk. Cultivated plants are not included in the list.

The habitat or life-form is indicated as follows:

- E epiphytic
- L lithophytic
- T terrestrial
- A aquatic
- C climber

Where a species is able to grow in more than one habitat, more than one letter is given, e.g. ETL. The term lithophytic is here given to plants which adhere to a rock surface, whether bare or covered with a layer of moss or lichen. Where a plant grows in a deposit of soil or humic matter on top of, or among rocks, it has been classified as terrestrial. Aquatics are either free-floating or rooted in water for all or part of the year, but the term does not include waterside plants.

Distribution within Zimbabwe is indicated by letters which show the geographical divisions as used in the *Flora Zambesiaca*: N, W, C, E, S (see Fig. 1).

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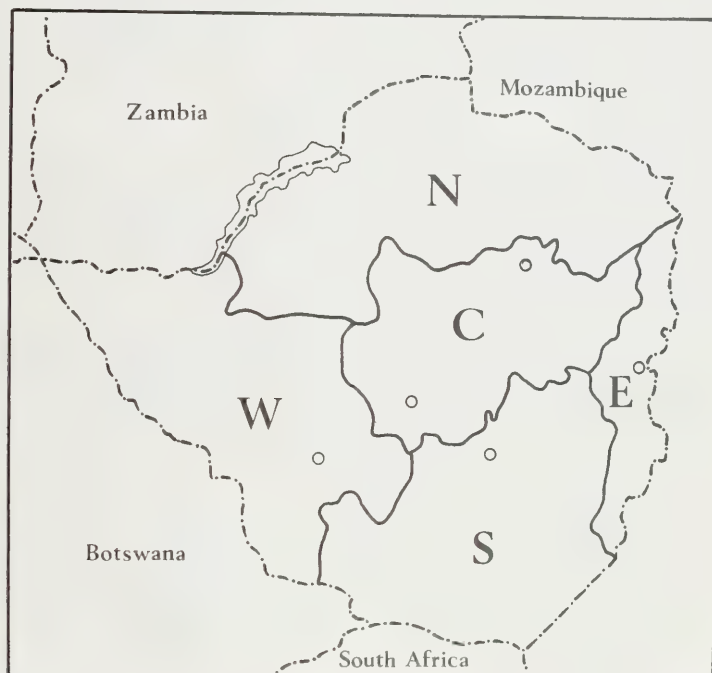


FIG. 1.
The geographical divisions of Zimbabwe.

PSILOACEAE

- 001 *Psilotum* Sw.
P. nudum (L.) Beauv. 245 NWCES Wild 6601 LE

LYCOPODIACEAE

- 003 *Lycopodium* L.
L. carolinianum L. 234 E Goodier & Phipps 229 T
var. *affine* (Bory) Schelpe 2345 WES Robinson 1932 T
var. *grandifolium* Spring 2345 NWCES Miller 5895 T
L. cernuum L. 2345 NWCES Miller 5895 T
L. clavatum L.
var. *inflexum* (Beauv.) Spring 2345 E Chase 4507 T
L. dactyloides Bak. 345 E Muller 3407 E

Lycopodium L.

<i>L. gnidioides</i> L.f.	345	E	Goodier 170	LE
<i>L. ophioglossoides</i> Lam.	345	E	Chase 3182	LE
<i>L. saururus</i> Lam.	35	E	W. Jacobsen 3745	LT
<i>L. verticillatum</i> L.f.	2345	E	Mitchell 502	LE

SELAGINELLACEAE**008 Selaginella Beauv.**

<i>S. abyssinica</i> Spring	234	NE	Chase 5041	LT
<i>S. caffrorum</i> (Milde) Hieron.	5	S	J. Burrows 2691	L
<i>S. dregei</i> (C. Presl) Hieron.	12345	NWCES	Chase 5188	TL
<i>S. imbricata</i> (Forsk.) Spring ex Decne.	245	NW	Chase 5763	T
<i>S. kraussiana</i> (Kunze) A. Braun	345	E	Wild 3563	T
<i>S. mittenii</i> Bak.	2345	NWCES	Pope 126	T
<i>S. nivea</i> Alston	4	S	Leach & Cannell 14894	T
<i>S. perpusilla</i> Bak.	Tanzania	S	Drummond 7851	T

ISOETACEAE**009 Isoetes L.**

<i>I. aequinoctialis</i> Welw. ex A. Braun	25	N	Whellan 849	A
<i>I. schweinfurthii</i> A. Braun	125	WS	Drummond & Rutherford-Smith 7557 & 7557a	A
<i>I. alstonii</i> Reed & Verdcourt			Greenway & Brenan 8012	
<i>I. rhodesiana</i> Alston			West 3075	

EQUISETACEAE**011 Equisetum L.**

<i>E. ramosissimum</i> Desf.	2345	NWCES	Phipps 864	T
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OPHIOGLOSSACEAE**016 Ophioglossum L.**

<i>O. costatum</i> R.Br.	234	NWCES	Drummond 5452	T
<i>O. gomezianum</i> Welw. ex A. Braun	235	NCES	Drummond 5102	T
<i>O. lancifolium</i> C. Presl	23	NWE	Mitchell 406	T
<i>O. polyphyllum</i> A. Braun	1345	NCES	Phipps 1463	T
<i>O. reticulatum</i> L.	2345	NWCES	J. Burrows 2083	T
<i>O. vulgatum</i> L.	2345	NCE	Chase 5913	T
<i>O. vulgatum</i> var. <i>kilimandscharicum</i> Hieron.				

MARATTIACEAE

- 022 **Marattia** Sw.
M. fraxinea Sm. ex
 J.F.Gmel.
 var. *salicifolia* (Schrad.)
 C.Chr. 2345 ES Chase 4508 T

OSMUNDACEAE

- 026 **Osmunda** L.
O. regalis L. 2345 NWCES Plowes 1739 T

- 029 **Todea** Willd.
T. barbara (L.) Moore 45 E Mitchell 278 T

SCHIZAEACEAE

- 032 **Schizaea** Sm.
S. pectinata (L.) Sw. 345 E J. Burrows 2440 T
S. tenella Kaulf. 5 E J. Burrows 2410 T

- 034 **Lygodium** Kuhn
L. kerstenii Kuhn 245 ES Chase 6975 TC
L. brycei Bak. *Bryce s.n.*

- 035 **Anemia** Sw.
A. angolensis Alston 23 N Phipps 956 T
A. simii var. *angustiloba*
 (Bonap.) P.-Sermolli
A. simii Tardieu 45 NCES Eyles 726 T
A. anthriscifolia sensu Sim

- 036 **Mohria** Sw.
M. caffrorum (L.) Desv. 2345 NCES Chase 7033 T
M. lepigera (Bak.) Bak. 234 WCES J. Burrows 2577 T

PARKERIACEAE

- 037 **Ceratopteris** Brongn.
C. cornuta (Beauv.) Le
 Prieur 124 NW Guy 1866 A
C. thalictroides sensu
 Schelpe

ADIANTACEAE

- 039 **Actiniopteris** Link
A. dimorpha P.-Sermolli 2345 NWCES Rodin 4407 LT
A. pauciloba P.-Sermolli 2 N Mitchell 560 LT
A. radiata (Sw.) Link 125 NWES Phipps 919 LT

047 *Cheilanthes* Sw.Anthony, N. C. & Schelpe, E. A. C. L. E. in Contr. Bol. Herb. **10**: 143–164 (1982)

<i>C. bergiana</i> Schlechtend.	345	E	Chase 5990	T
<i>C. concolor</i> (Langsd. & Fisch.) Schelpe & N.C. Anthony	12345	NWCES	Chase 6802	LT
<i>Doryopteris concolor</i> (Langsd. & Fisch.) Kuhn				
<i>C. eckloniana</i> (Kunze) Mett.	5	CES	Rushworth 803	T
<i>Notholaena eckloniana</i> Kunze				
<i>C. farinosa</i> (Forsk.) Kaulf.	23	WCE	Schelpe 3930	ET
<i>C. hirta</i> Sw.	145	NWCES	Rodin 4351	T
<i>C. inaequalis</i> (Kunze) Mett.				
var. <i>inaequalis</i>	235	NWCES	Fisher & Schweickerdt 476	LT
<i>Notholaena inaequalis</i> Kunze				
var. <i>buchananii</i> (Bak.) Schelpe	245	CES	Chase 7739	LT
<i>Notholaena buchananii</i> Bak.				
<i>C. leachii</i> (Schelpe) Schelpe	234	WCES	Pope 1108	T
<i>Notholaena leachii</i> Schelpe				
<i>C. multifida</i> (Sw.) Sw.				
subsp. <i>multifida</i>	5	S	J. Burrows 39	T
subsp. <i>lacerata</i> N.C. Anthony & Schelpe	2345	NWCES	Chase 6404	T
<i>C. pentagona</i> Schelpe & N.C. Anthony	5	N	Mitchell 105	T
<i>C. quadripinnata</i> (Forsk.) Kuhn	345	NCE	Wild 1397	T
<i>Pellaea quadripinnata</i> (Forsk.) Prantl				
<i>C. viridis</i> (Forsk.) Sw.				
var. <i>viridis</i>	345	WCES	Wild 2187	T
<i>Pellaea viridis</i> (Forsk.) Prantl				
var. <i>viridis</i>				
var. <i>glauca</i> (Sim) Schelpe & N.C. Anthony	12345	NWCES	J. Burrows 2654	T
<i>Pellaea viridis</i> (Forsk.) Prantl				
var. <i>glauca</i> (Sim) Sim				
var. <i>obscura</i> N.C. Anthony	45	NWCES	H. Burrows 1942	T
<i>Pellaea viridis</i> (Forsk.) Prantl				
var. <i>involuta</i> sensu Schelpe				

Cheilanthes welwitschii Hook, ex Bak.					
	4	NC	Mitchell 477		T
<i>C. mossambicensis</i> Schelpe					
050 Aspidotis (Nutt. ex Hook.) Copel.					
<i>A. schimperi</i> (Kunze)					
P.-Sermolli	234	NCE	Chase 4747		T
<i>Hypolepis schimperi</i> (Kunze) Hook.					
057 Pellaea Link					
P. boivinii Hook.	25	NWCES	Chase 6163		T
P. calomelanos (Sw.) Link					
var. calomelanos	12345	NWCES	Miller 2786		T
<i>Pellaea hastata</i> sensu Sim					
var. swynnertoniana (Sim) Schelpe	34	ES	Schelpe 5393		T
P. swynnertoniana Sim			Swynnerton 850		
P. doniana J.Sm. ex Hook.	234	NES	Chase 7491		T
P. dura (Willd.) Hook.	2345	NWCES	Chase 6230		T
P. longipilosa Bonap.	234	NC	Rodin 4427		T
P. pectiniformis Bak.	2345	NCES	Chase 3494		LT
<i>P. goudotii</i> C.Chr.					
062 Anogramma Link					
A. leptophylla (L.) Link	5	NE	Eyles 563		T
063 Pityrogramma Link					
P. argentea (Willd.) Domin	2345	NCES	Schelpe 5662		LT
<i>Gymnogramma argentea</i> (Willd.) Mett.					
086 Adiantum L.					
<i>A. capillus-veneris</i> L.					
	2345	NWCES	Greenway & Brennan 8027		ELT
<i>A. hispidulum</i> Sw.	34(5*)	E	J. Burrows 2160		T
<i>A. incisum</i> Forsk.	2345	NWCES	Schelpe 4084		LT
<i>A. caudatum</i> sensu Sim					
<i>A. mendoncae</i> Alston	4	NES	Mitchell 404		T
<i>A. patens</i> Willd.					
subsp. oatesii (Bak.) Schelpe	2	W	J. Burrows 2630		T
<i>A. oatesii</i> Bak.			Oates s.n.		
<i>A. philippense</i> L.	2345	NWCE	Rogers 5549		LT
<i>A. lunulatum</i> Burm.f.					
<i>A. poiretii</i> Wikstr.					
var. poiretti	2345	NWCES	Eyles 328		LT
<i>A. thalictroides</i> Willd. ex Schlechtend.					
var. sulphureum (Kaulf.) Tryon	35	NCE	Chase 6536		LT
* <i>A. raddianum</i> C.Presl	345	E	Chase 6343		T

- 093 **Vittaria** Sm.
V. elongata Sw. 4 E J. Burrows 2761 E
V. guineensis Desv. 234 E Chase 6641 TLE
 var. *orientalis* Hieron. 345 E Fisher 1571 LE
V. isoetifolia Bory 34 E Mitchell 268 LE
V. volkensii Hieron. 34 E Mitchell 268 LE
- 096 **Pteris** L.
 Schelpe, E.A.C.L.E., in Contr. Bol. Herb. 1: 57-67 (1969)
P. buchananii Bak. ex Sim 5 E Wild 2216 T
P. cretica L. 235 CES Chase 3525 T
P. dentata Forsk. 2345 E Chase 6240 T
P. dentata Forsk.
 subsp. *flabellata* (Thunb.)
 Runemark
P. pteridioides (Hook.)
 Ballard 34 E Wild 2199 T
P. quadriaurita Retz.
 subsp. *catoptera* (Kunze)
 Schelpe 2345 NE Wild 2204 T
P. catoptera Kunze
 var. *horridula* Schelpe 34 E Chase 4890 T
 subsp. *friesii* (Hieron.)
 Schelpe 2345 WCES Mitchell 563 T
P. friesii Hieron.
P. vittata L. 2345 NWCES Gilliland 203 T
P. mildbraedii Hieron. Zaire E J. Burrows 2822 T
- 100 **Acrostichum** L.
A. aureum L. 45 S Jaklitsch s.n. T

HYMENOPHYLLACEAE

- 106 **Hymenophyllum** Sm.
H. capense Schrad. 345 E J. Burrows 2681 LE
H. polyanthos var.
 mossambicense sensu
 Schelpe
H. capillare Desv. 345 E Chase 3187 LE
H. hirsutum sensu Schelpe
 & Diniz 4 E J. Burrows 2936 L
H. polyanthos Sw.
 var. *kuhnii* (C. Chr.)
 Schelpe 34 E Fisher & Schweickardt
 321 LE
H. henkelii Sim
H. sibthorpioides (Bory ex
 Willd.) Mett. ex Kuhn 34 E Müller 3248 LE
H. tunbridgense (L.) Sm. 345 E Chase 6678 LE

117 **Trichomanes** L.

<i>T. borbonicum</i> v.d.Bosch	345	E	Chase 6573	LE
<i>T. erosum</i> Willd.				
var. <i>erosum</i>	4	E	Chase 5851	LE
var. <i>aerugineum</i> (v.d.Bosch) Schelpe	45	E	J. Burrows 2790	L
<i>T. pyxidiferum</i> L.				
var. <i>melanotrichum</i> (Schlechtend.) Schelpe	2345	E	Eyles 4451	LE
<i>T. rigidum</i> Sw.	2345	E	Wild 3635	T

GLEICHENIACEAE

144 **Gleichenia** Sm.

<i>G. polypodioides</i> (L.) Sm.	345	NES	Chase 6743	T
<i>G. umbraculifera</i> (Kunze) Moore	5	E	Wild 1475	T

147 **Dicranopteris** Bernh.

<i>D. linearis</i> (Burm.f.) Underw.	2345	NES	Chase 7870	T
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POLYPODIACEAE

162 **Platyserium** Desv.

<i>P. alpicorne</i> Desv.	4	E	Biegel 2758	E
<i>P. vassei</i> Poisson				
<i>P. bifurcatum</i> sensu Sim				

163 **Pyrrosia** Mirb.

<i>P. lanceolata</i> (L.) Farw.	4	E	J. Burrows 2724	LE
<i>P. rhodesiana</i> (C. Chr.) Schelpe	34	E	Eyles 4472	LE
<i>P. schimperana</i> (Mett. ex Kuhn) Alston	2345	NCES	Chase 6577	LE

166 **Microsorium** Link

Schelpe, E.A.C.L.E., in Con. Fl. Angol., Pterid. Vol.: 121-124 (1977).				
<i>M. pappei</i> (Mett. ex Kuhn) Tardieu	45	E	J. Burrows 2163	LE
<i>M. punctatum</i> (L.) Copel.	345	E	Wild & Chase 5571	LE
<i>M. scolopendrium</i> (Burm.f.) Copel.	45	E	Chase 6669	TLE
<i>Phymatodes scolopendria</i> (Burm.f.) Ching				

185 **Pleopeltis** Willd.

<i>P. excavata</i> (Bory ex Willd.) Sledge	2345	NE	Chase 6669	LE
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Pleopeltis macrocarpa (Bory ex Willd.) Kaulf.					
	2345	CES	Wild 4311		LE
P. schraderi (Matt.) Tardieu					
	345	ES	Chase 6568		LE
186 Microgramma C.Presl					
M. lycopodioides (L.) Copel.					
	245	E	J. Burrows 2725		LE
196 Belvisia Mirb.					
B. spicata (L.f.) Mirb.					
	4	E	Chase 7196		E
206 Polypodium L.					
P. polypodioides (L.) Hitchcock					
subsp. ecklonii (Kunze) Schelpe					
	345	CES	Wild 2119a		LE

GRAMMITIDACEAE

210 Grammitis Sm.					
G. nanodes (A.Peter) Ching					
	4	E	Mitchell 364		LE
211 Xiphopteris Kaulf.					
X. flabelliformis (Poir.) Schelpe					
	345	E	Mitchell 366		LE
X. oosora (Bak.) Alston					
	3	E	J. Burrows 2840		L
X. serrulata (Sw.) Kaulf.					
	Congo	E	Williams 11		L
223 Loxogramme (Bl.) C.Presl.					
L. lanceolata (Sw.) C.Presl					
	2345	ES	Chase 6665		LE

CYATHEACEAE

228 Cyathea Sm.					
Holtum, R. E. in Kew Bulletin 36 (3): 463-482 (1981)					
Tryon, R. in Contr. Gray Herb. 200 : 3-53 (1970)					
C. capensis (L.f.) Sm.					
	345	E	J. Burrows 2547		T
Hemitelia capensis (L.f.) Kaulf.					
Alsophila capensis (L.f.) J.Sm.					
C. dregei Kunze					
	2345	NWCES	Chase 6894		T
Alsophila dregei (Kunze) Tryon					
C. manniana Hook.					
	234	E	Chase 6696		T
Alsophila manniana (Hook.) Tryon					
C. mossambicensis Bak.					
	4	E	J. Burrows 2788		T
Alsophila mossambicensis (Bak.) Tryon					
C. thomsonii Bak.					
	234	ES	Chase 6864		T
Alsophila thomsonii (Bak.) Tyron					

DENNSTAEDTIACEAE

- 239 **Microlepia** C.Presl
M. speluncae (L.) Moore 12345 NWCES Mitchell 38 T
- 242 **Hypolepis** Bernh.
H. sparsisora (Schrad.) Kuhn 345 E Chase 6697 T
- 244 **Pteridium** Scop.
P. aquilinum (L.) Kuhn subsp. *aquilinum* 2345 NWCES Eyles 79 T
subsp. *centrali-africanum* Hieron. 234 NWS Phipps 2881 T
P. centrali-africanum (Hieron.) Alston
- 245 **Histiopteris** (Agardh) J.Sm.
H. incisa (Thunb.) J.Sm. 235 E Schelpe 5426 T
- 248 **Blotiella** Tryon
B. glabra (Bory) Tyron 245 E Chase 6048 T
B. natalensis (Hook.) Tryon 2345 ES Chase 3427 T
- 252 **Lindsaea** Dryand. apud Sm.
L. ensifolia Sw. 45 E J. Burrows 2864 T
L. odorata Roxb. 4 E Ball 695 L

THELYPTERIDACEAE

Holtum, R. E. in Jl S. Afr. Bot. **40**(2): 123-169 (1974)

Schelpe, E.A.C.L.E., in Con. Fl. Angol., Pterid. Vol: 149-160 (1977).

- 260 **Thelypteris** Schmidel
T. bergiana (Schlechtend.) Ching 2345 E Chase 6340 LT
Amauropelta bergiana (Schlechtend.) Holtt. 235 NCE Mitchell 584 T
T. chaseana Schelpe
Christella chaseana (Schelpe) Holtt.
T. confluens (Thunb.) Morton 2345 NWCES Phipps 373 T
Dryopteris thelypteris sensu Sim
T. palustris var. *squamigera* (Schlechtend.) Weath.

Thelypteris dentata (Forsk.)

E.St.John

var. *dentata*

2345 NWCES Chase 6165

T

Cyclosorus hispidulus

A.Peter

*Peter 30794**Christella dentata* (Forsk.)

Holtz.

var. *buchananii* Schelpe

45

E

Mitchell 401

T

T. friesii (Brause) Schelpe

23

E

Chase 4628

T

Christella friesii (Brause)

Holtz.

T. gueinziana (Mett.)

Schelpe

345

NWCES

Chase 6167

T

Christella gueinziana (Mett.)

Holtz.

T. hispidula (Decne.) Reed

234

E

Wild 2188

T

T. quadrangularis (Fée)

Schelpe

Christella hilsenbergii

(C.Presl) Holtz.

T. hilsenbergii (C.Presl)

Schelpe

Christella hispidula (Decne.)

Holtz.

T. interrupta (Willd.)

K.Iwats.

123

NE

Chase 3099

AT

Cyclosorus interruptus

(Willd.) H.Ito

T. madagascariensis (Fée)

Schelpe

2345

E

Swynnerton 864

T

Pneumatopteris unita

(Kunze) Holtz.

T. oppositiformis (C.Chr.)

Ching

Tanzania

E

Schelpe 5670

LT

T. strigosa sensu Schelpe*Amauropelta oppositiformis*

(C.Chr.) Holtz.

T. pozoi (Lagasca) Morton

35

E

Chase 5667

LT

Stenogramma pozoi

(Lagasca) K.Iwats

T. pulchra (Bory ex Willd.)

Schelpe

3

CES

Mitchell 745

T

T. longicuspis (Bak.)

Schelpe

Pseudocyclosorus pulcher

(Bory ex Willd.) Holtz.

T. totta (Thunb.) Schelpe

345

S

J. Burrows 2657

AT

Dryopteris gongylodes

(Schkuhr) Kuntze

Cyclosorus tottus (Thunb.)

P.-Sermolli

282 **Ampelopteris** Kunze

<i>A. prolifera</i> (Retz.) Copel	2345	NWES	Chase 6540	T
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ASPLENIACEAE

288 **Asplenium** L.

<i>A. aethiopicum</i> (Burm.f.) Becherer	2345	NWCES	Miller 2603	TEL
<i>A. praemorsum</i> sensu Sim				
<i>A. lividum</i> sensu Schelpe				
<i>A. anisophyllum</i> Kunze	345	E	Chase 1011	ELT
<i>A. atroviride</i> Schelpe	34	E	<i>Schelpe 5446</i>	T
<i>A. auritum</i> Sw.	4	E	Chase 6558	T
<i>A. blastophorum</i> Hieron.	2345	E	Swynnerton 845a	T
<i>A. boltonii</i> Hook. ex Schelpe	2345	ES	Chase 2038	ELT
<i>A. christii</i> Hieron.	5	ES	Fisher & Schweickerd 384	T
<i>A. dregeanum</i> Kunze	2345	E	Chase 1115	T
<i>A. erectum</i> Bory ex Willd. var. <i>usambarense</i> (Hieron.) Schelpe	2345	ES	Chase 6693	T
<i>A. formosum</i> Willd.	234	E	Chase 3517	ETL
<i>A. friesiorum</i> C.Ch.	2345	E	Mitchell 266	ETL
<i>A. gemmiferum</i> Schrad.	345	E	Chase 6227	TL
<i>A. holstii</i> Hieron.	34	E	Mitchell 377	T
<i>A. hypomelas</i> Kuhn	34	ES	Fisher & Schweickerd 309	T
<i>Davallia hollandii</i> Sim			<i>Holland s.n.</i>	
<i>A. hollandii</i> (Sim) C.Ch.				
<i>A. inaequilaterale</i> Willd.	2345	E	Wild 2198	LT
<i>A. erectum</i> Bory ex Willd. var. <i>brachyotus</i> (Kunze) Sim				
<i>A. linckii</i> Kuhn	3	E	Chase 6576	T
<i>A. lobatum</i> Pappe & Raws. var. <i>lobatum</i>	345	E	Chase 3032	LT
<i>A. erectum</i> var. <i>lobatum</i> (Pappe & Raws.) Alston & Schelpe				
<i>A. lunulatum</i> var. <i>gracile</i> Sim				
var. <i>pseudoabyssinicum</i> Schelpe & N. C. Anthony	4	E	Chase 7145	ELT
<i>A. mannii</i> Hook.	234	E	Fisher & Schweickerd 219	LE
<i>A. monanthes</i> L.	35	E	Chase 3047	T
<i>A. mossambicense</i> Schelpe	4	E	Wild 2203	T
<i>A. obscurum</i> Bl.	34	E	Mitchell 405	TL
<i>A. parablastophorum</i> <i>A. Braithwaite</i>	0	E	<i>Mitchell 381</i>	T

Asplenium pellucidum Lam.					
subsp. pseudohorridum					
(Hieron.) Schelpe					
	4	E	Mitchell 380		LT
<i>A. preussii</i> Hieron.	34	E	J. Burrows 1667		T
<i>A. pseudoauriculatum</i>					
Schelpe					
<i>A. protensum</i> Schrad.	2345	E	Chase 6690		LT
<i>A. pumilum</i> Sw.					
subsp. hymenophylloides					
(Fée) Schelpe					
	23	N	Rodin 4360		LT
<i>A. eylesii</i> Sim			<i>Eyles 564</i>		
<i>A. ramlowii</i> Hieron.	24	NWCES	Chase 6316		LT
<i>A. rutifolium</i> (Berg.) Kunze					
var. rutifolium					
	5	E	Ball s.n.		LET
var. bipinnatum (Forsk.)					
Schelpe					
	345	ES	Mitchell 282		LET
<i>A. sandersonii</i> Hook.	345	E	Fisher 1098		LE
<i>A. schelpei</i> Braithwaite	5	E	Chase 5688		LT
<i>A. simii</i> Braithwaite &					
Schelpe					
	45	E	<i>Chase 6274</i>		LE
<i>A. cuneatum</i> . var.					
<i>angustatum</i> Sim					
<i>A. theciferum</i> (Kunth)					
Mett.					
var. concinnum (Schrad.)					
Schelpe					
	2345	ES	Chase 2046		LE
<i>A. trichomanes</i> L.	5	E	J. Burrows 2088		TL
<i>A. unilaterale</i> Lam.	3	E	Taylor 3380		TL
<i>A. varians</i> Wall. ex Hook.					
& Grev.					
subsp. fimbriatum					
(Kunze) Schelpe					
	45	ES	Chase 5124		LT
291 Ceterach DC.					
<i>C. cordatum</i> (Thunb.) Desv.					
<i>Asplenium cordatum</i>					
(Thunb.) Sw.					
	15	NWCES	Miller 5501		T
304 Athyrium Roth.					
<i>A. scandicinum</i> (Willd.)					
C.Presl					
var. scandicinum					
	345	E	Chase 2199		T
var. rhodesianum Schelpe					
	0	E	<i>Schelpe 5722</i>		T
<i>A. schimperi</i> Moug. ex Fée	235	CE	Chase 3774		T
307 Diplazium Sw.					
<i>D. nemorale</i> (Bak.) Schelpe					
	4	E	Chase 5700		T
<i>D. zanzibaricum</i> (Bak.)					
C.Chr.					
	245	E	Chase 6181		T
321 Dryothyrium Ching					
<i>D. boryanum</i> (Willd.) Ching					
	4	E	Chase 6182		T
<i>Athyrium glabratum</i> (Mett.					
ex Kuhn) Alston					
<i>Parathyrium boryanum</i> (Willd.)					
Holtt.					

- 328 **Ctenitis** (C.Chr.) C.Chr. ex Tardieu
C. cirrhosa (Schum.) Ching 234 E Chase 5127 T
C. lanuginosa (Willd. ex Kaulf.) Copel. 345 E J. Burrows 2122 T
Dryopteris lanuginosa
(Willd. ex Kaulf.) C.Chr.
- 337 **Tectaria** Cav.
T. gemmifera (Fée) Alston 2345 E Chase 5715 T
- 353 **Didymochlaena** Desv.
D. truncatula (Sw.) J.Sm. 345 E Gilliland 1747 T
- 356 **Polystichum** Roth.
P. luctuosum (Kunze) Moore 5 E Chase 1083 T
P. transvaalense N.C. Anthony 35 E Chase 7482 T
P. setiferum sensu Schelpe 34 E Schelpe 5751 T
P. zambesiaceum Schelpe
- 364 **Arachniodes** Bl.
A. foliosa (C.Chr.) Schelpe 25 E J. Burrows 2227 T
Dryopteris foliosa C.Chr.
- 369 **Dryopteris** Adans.
D. athamantica (Kunze) Kuntze 2345 CES Mitchell 45 T
D. callolepis C.Chr. 5 E Chase 5262 T
D. inaequalis (Schlechtend.) Kuntze 2345 NCES Chase 6531 T
D. kilemensis (Kuhn) Kuntze 234 E Chase 5390 T
D. lastii (Bak.) C.Chr.
D. manniana (Hook.) C.Chr. 34 E J. Burrows 1676 T
D. squamiseta (Hook.) Kuntze 25 E Chase 4640 T
D. buchananii (Bak.) Kuntze
D. wallichiana (Spreng.) Hylander Malagasy Rep. E Chase 7337 T
- 374 **Bolbitis** Schott
B. gemmifera (Hieron.) C.Chr. Angola E Biegel 2827 T
B. heudelotii (Bory ex Fée) Alston 245 NE Chase 6638 LA

380 **Lomariopsis** Fée

L. warneckei (Hieron.)

Alston

34

E

J. Burrows 2116

E

L. nigrescens Holtt.

381 **Elaphoglossum** Schott

E. acrostichoides (Hook. &

Grev.) Schelpe

345

E

Chase 3792

EL

E. conforme var. lineatum

(Kuhn ex Christ) C. Chr.

E. aubertii (Desv.) Moore

345

E

Chase 4509

L

E. chevalieri Christ

34

E

Chase 6667

EL

E. deckenii (Kuhn) C. Chr.

3

E

J. Burrows 2841

EL

E. hybridum (Bory) Brack.

345

E

Chase 6666

ETL

E. kuhnii Hieron.

3

CE

Schelpe 5647

TL

E. lastii (Bak.) C. Chr.

34

E

Fisher & Schweickardt
326

E

E. macropodium (Fée)

Moore

345

E

Schelpe 5742

LE

E. conforme var. latifolium

sensu Sim

E. marojejyense Tardieu

Malagasy
Rep.

E

Mitchell 367

L

E. petiolatum (Sw.) Urb.

subsp. salicifolium (Willd.

ex Kaulf.) Schelpe

234

E

Chase 3308

EL

E. spathulatum (Bory)

Moore

2345

NE

Drummond 6049

L

E. spathulatum var.

uluguruense (Reim.)

Schelpe

DAVALLIACEAE

388 **Davallia** Sm.

D. chaerophylloides (Poir.)

Steud.

45

E

Chase 2190

EL

394 **Rumohra** Raddi

R. adiantiformis (Forst.)

Ching

5

E

J. Burrows 2262

T

395 **Oleandra** Cav.

O. distenta Kunze

2345

NCE

Chase 6912

ETL

396 **Arthropteris** J. Sm.

A. monocarpa (Cordem.)

C. Chr.

2345

CE

Chase 4499

ETL

A. orientalis (J.F. Gmel.)

Posth.

234

NWCES

Chase 6406

TL

398 **Nephrolepis** Schott

N. biserrata (Sw.) Schott

N. undulata (Afz. ex Sw.)

J. Sm.

245

E

Biegel 2779

ETL

234

NWCE

Davies 978

T

BLECHNACEAE

- 399 **Blechnum** L.
B. attenuatum (Sw.) Mett. 235 E Chase 6645 EL
B. australe L. 5 E Fisher 1257 T
B. giganteum (Kaulf.) Schlechtend. 345 CE Swynnerton 835a LT
B. attenuatum var. *giganteum*
B. inflexum (Kunze) Kuhn 5 E Fisher 1428 T
B. ivohibense C. Chr. 4 E J. Burrows 2839 T
B. punctulatum Sw. 35 NS J. Burrows 2695 TL
B. sylvaticum Schelpe 345 E Chase 4268 T
B. capense (L.) Schlechtend.
B. tabulare (Thunb.) Kuhn 2345 CE Chase 7134 T
- 409 **Stenochlaena** J. Sm.
S. tenuifolia (Desv.) Moore 45 E J. Burrows 2780 TC

MARSILEACEAE

- 410 **Marsilea** L.
M. apposita Launert 15 NW Gibbs 289 A
M. coromandelina Willd. 5 S Ngoni 137 A
M. ephippiocarpa Alston 125 NCES Rendle 307 A
M. farinosa Launert 15 WC Plowes 1878 A
M. macrocarpa C. Presl 5 W Whellan 1664 A
M. minuta L. 124 N J. Burrows 2521 A
M. nubica A. Braun 15 NW Gibbs-Russell 1629 A

SALVINIACEAE

- 413 **Salvinia** Adans.
S. molesta Mitchell 1245 NWCE Mitchell 1330 A
S. auriculata sensu Schelpe

AZOLLACEAE

- 414 **Azolla** Lam.
A. filiculoides Lam. 5 NC J. Burrows 3066 A
A. nilotica Decne. ex Mett. 234 NW Guy 902 A
A. pinnata R. Br. 1245 W Van Someren 87308 A
var. *africana* (Desv.) Bak.

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